

ABSTRACT AMENDMENTS

Please add the present abstract with the cleanly typed abstract submitted on the following separate page.

ABSTRACT

The invention relates to a device and method for production of a pre-formed shape on a workpiece having a blank piece shape, by means of grinding in several working steps, preferably on cams of a camshaft, comprising a grinding machine and a controller, for controlling the grinding machine. A measuring device is provided, for measuring the actual blank piece shape of the workpiece before grinding, directly or indirectly connected to the controller by means of a data transmission device such that the measured values, as determined by the measuring device, may be provided to the controller and set points for the control determine from said measured values by the controller. Either a grinding program matching the actual blank piece shape is calculated from said measured values, whereby the control of the grinding machine is carried out with relation to the actual blank piece shape, or a given stored grinding program is selected, which best matches the control of the grinding machine to the actual blank piece shape, by comparison to the usually selectable grinding programs.